

Fig. 3

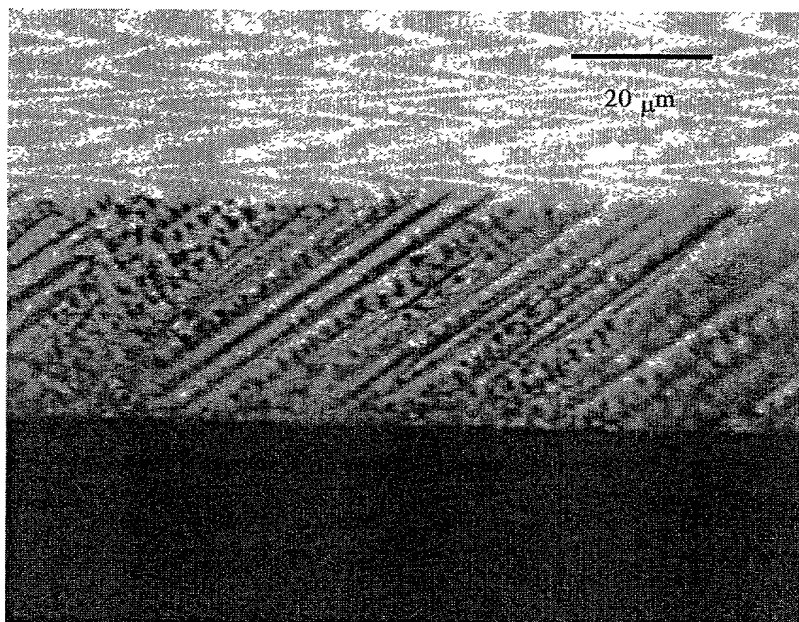
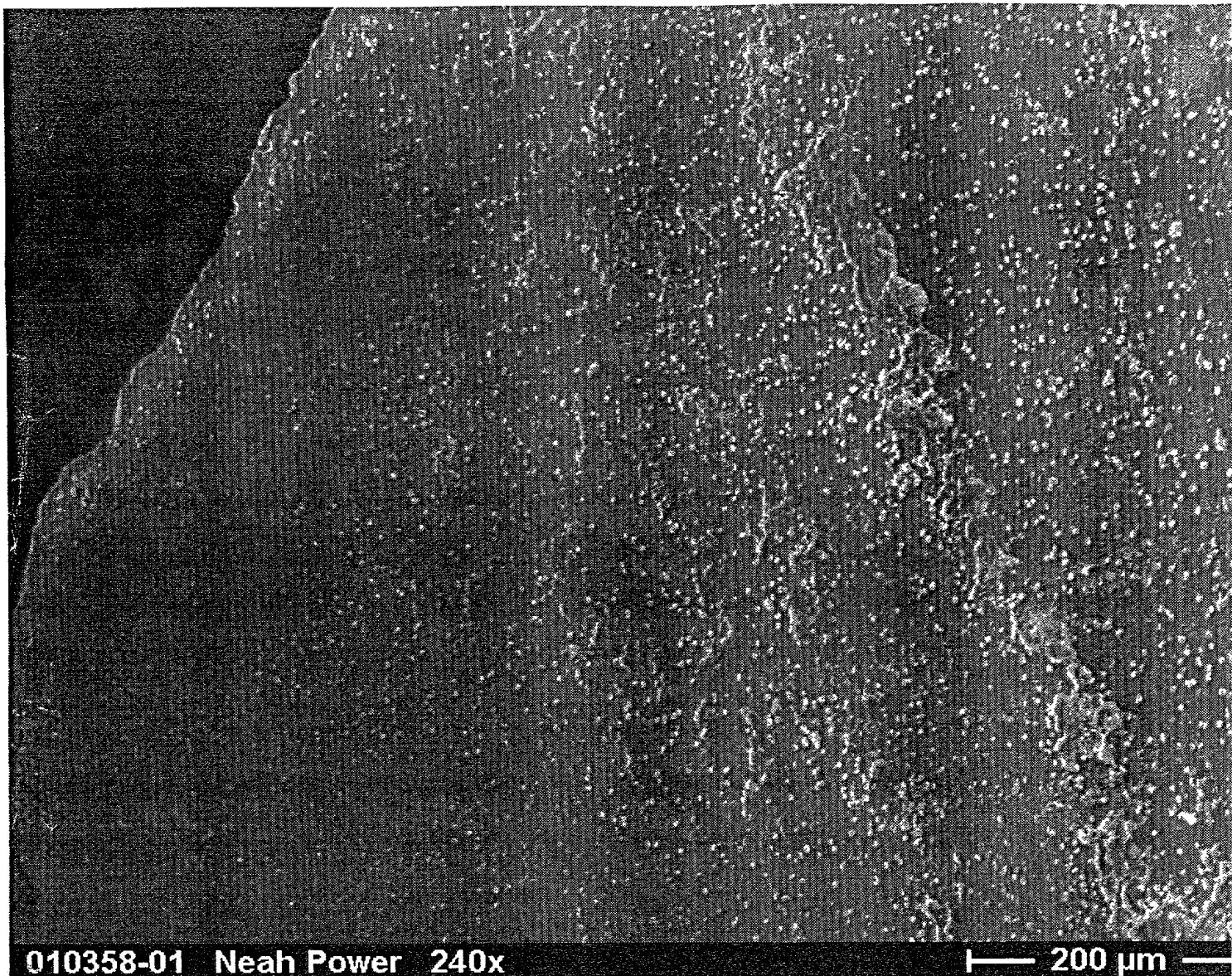


Fig. 4



010358-01 Neah Power 240x

— 200 μ m —

01

Fig. 7

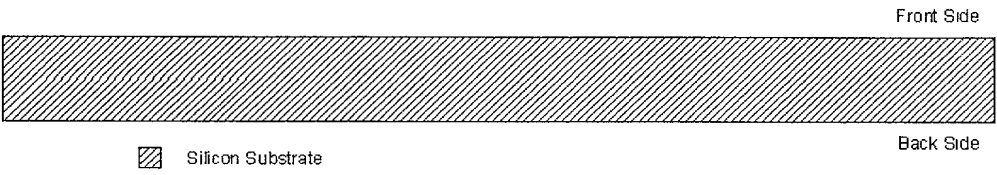


Figure 8

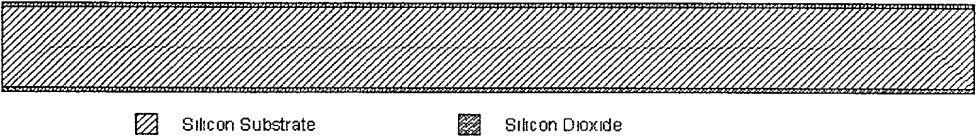


Figure 9

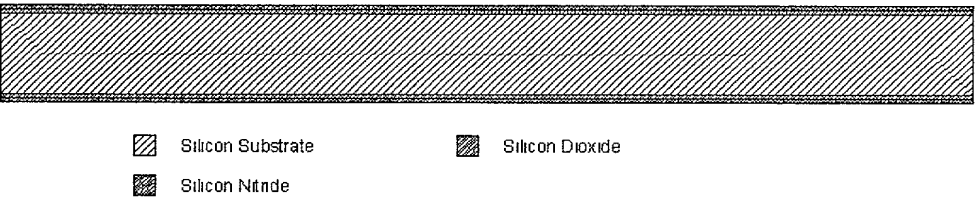


Figure 10

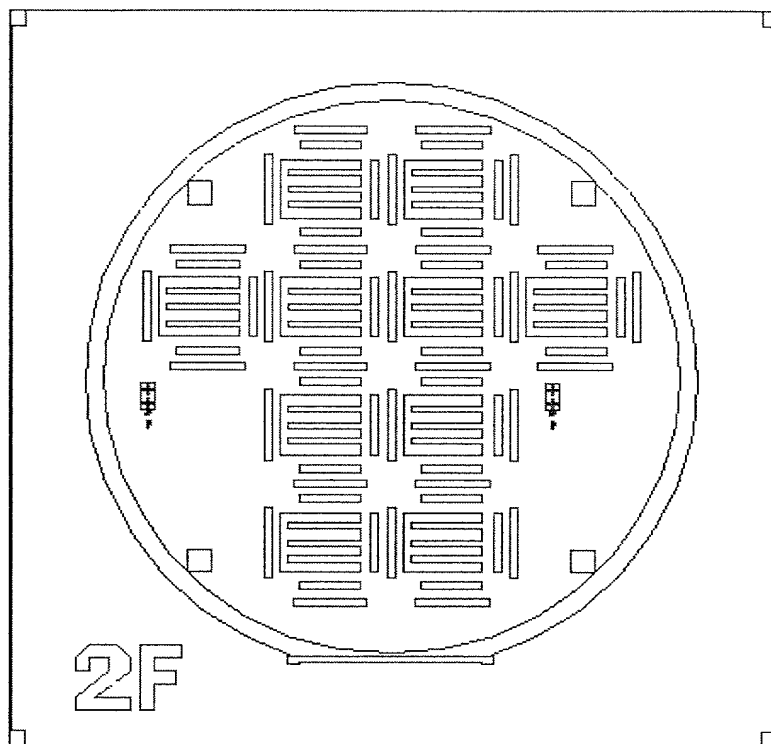
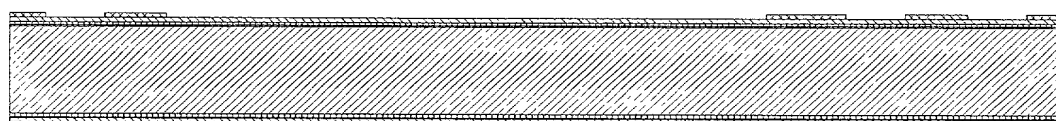


Figure 11A



- | | |
|---|---|
|  Silicon Substrate |  Photoresist |
|  Silicon Nitride |  Silicon Dioxide |

Figure 11B

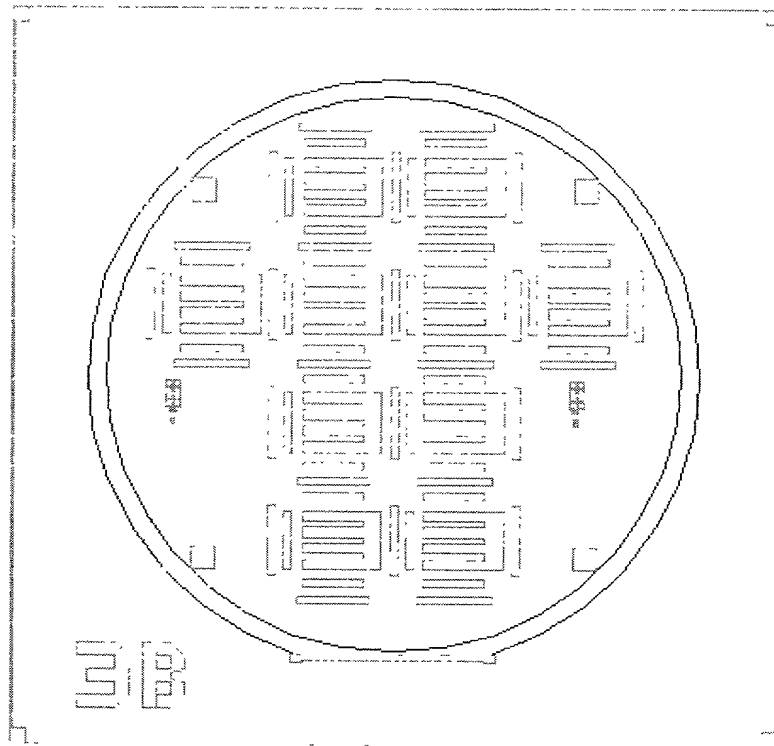
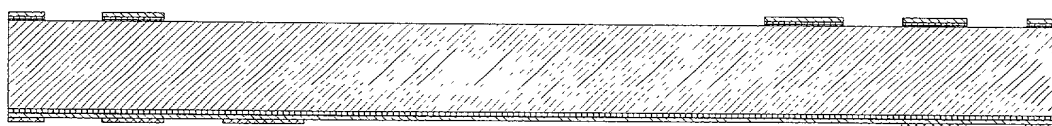


Figure 14A




- | | |
|---|---|
|  Silicon Substrate |  Silicon Dioxide |
|  Silicon Nitride |  Photoresist |

Figure 14B

Patented September 22, 1992

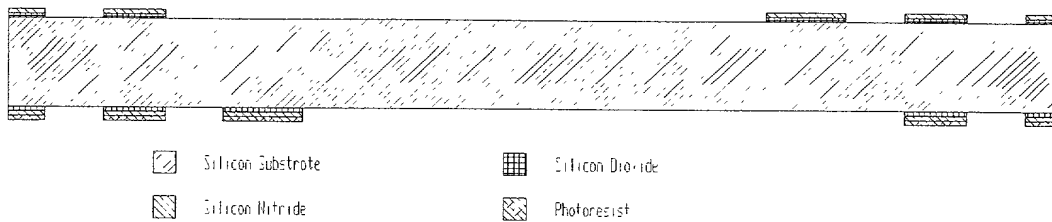


Figure 15

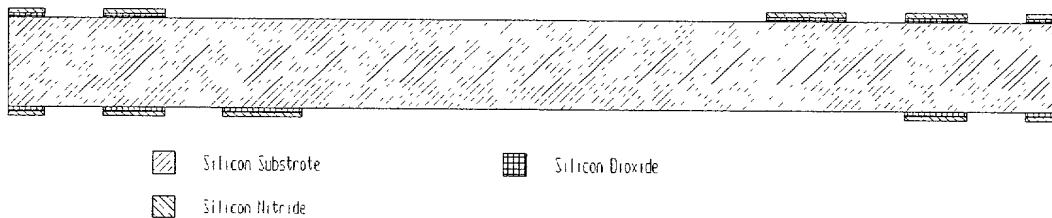


Figure 16

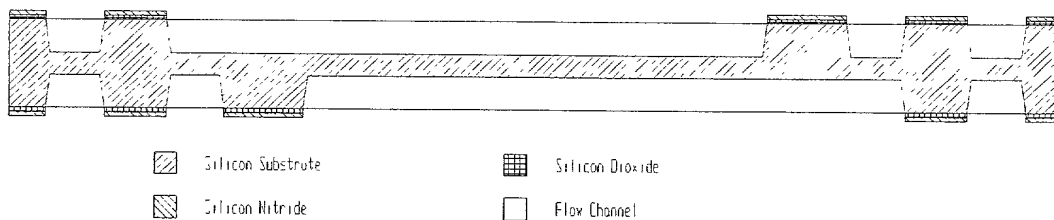


Figure 17

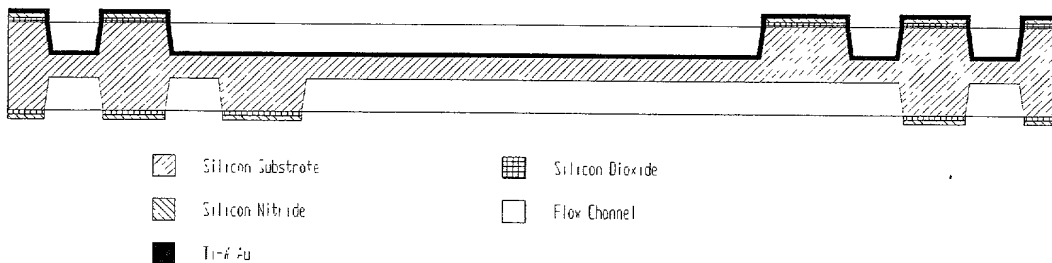


Figure 18

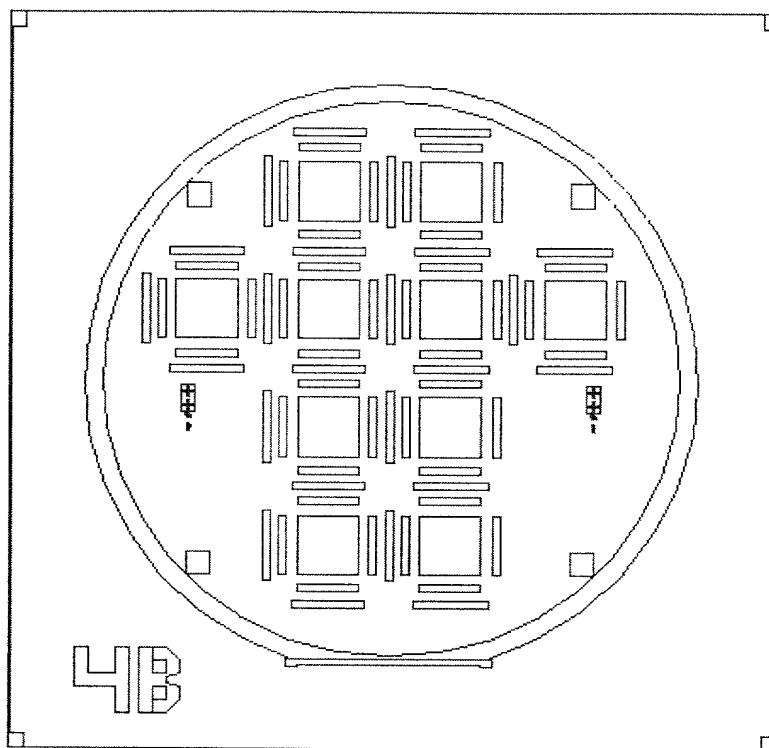


Figure 19A

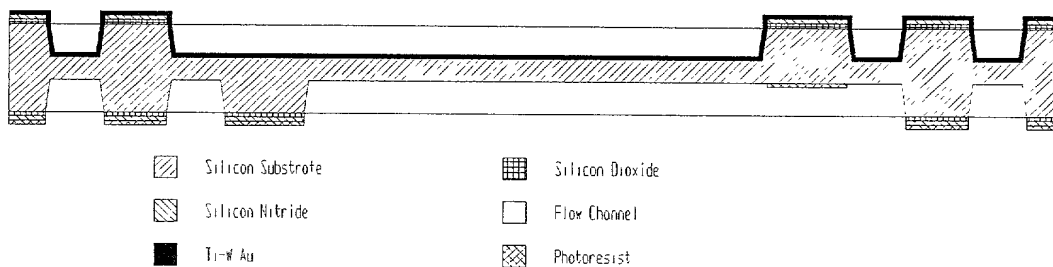


Figure 19B

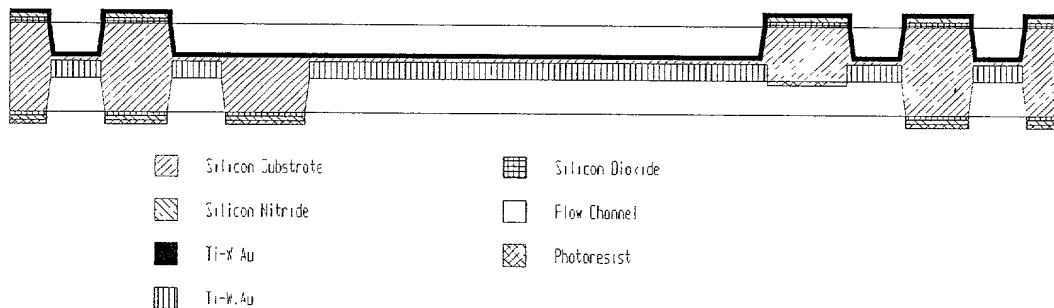


Figure 20

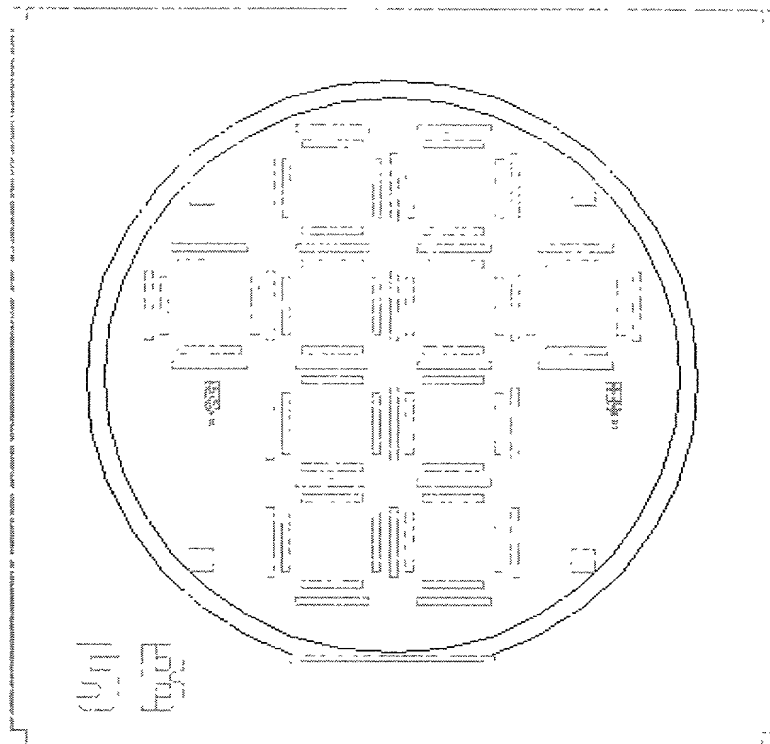
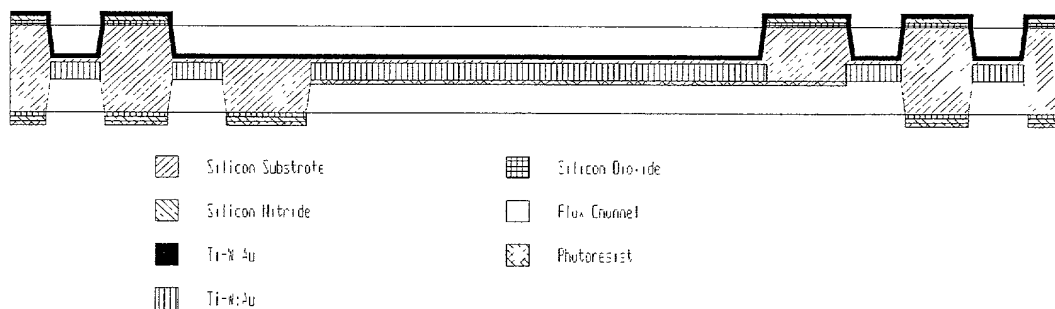


Figure 21A










- | | |
|---|---|
|  Silicon Substrate |  Silicon Dioxide |
|  Silicon Nitride |  Flux Channel |
|  Ti-W:Cu |  Photoresist |
|  Ti-W:Cu | |

Figure 21B

Figure 22

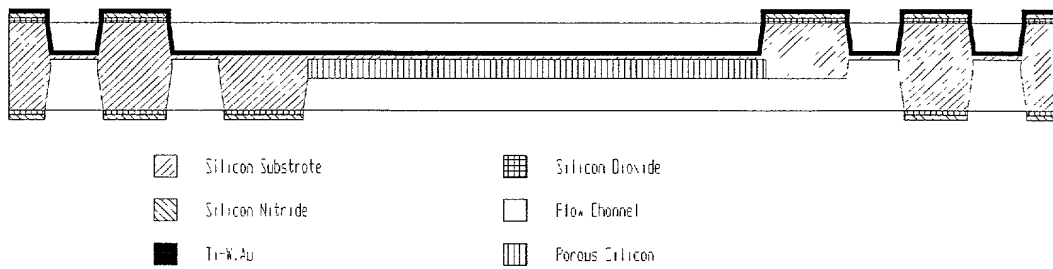


Figure 23

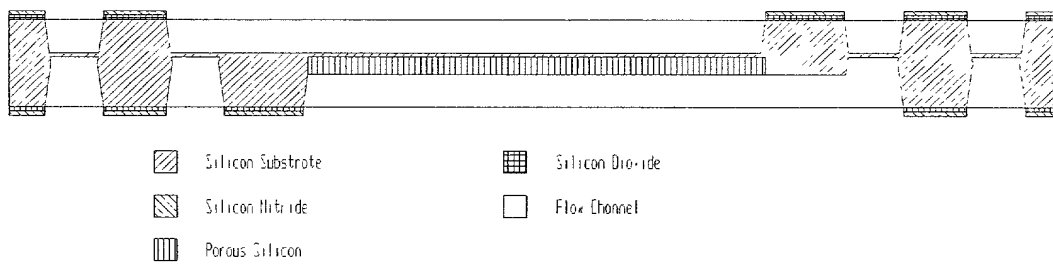


Figure 24

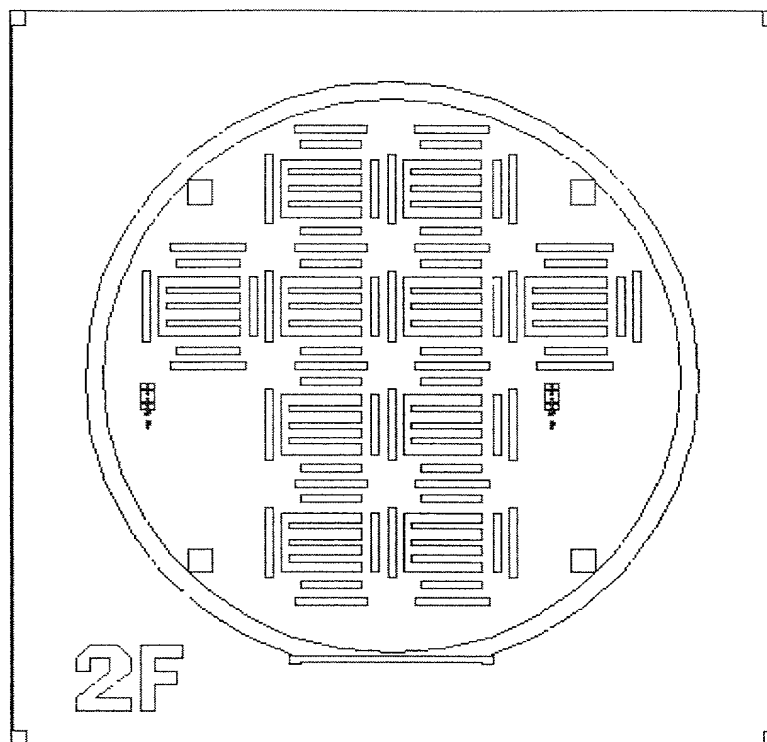


Figure 25A

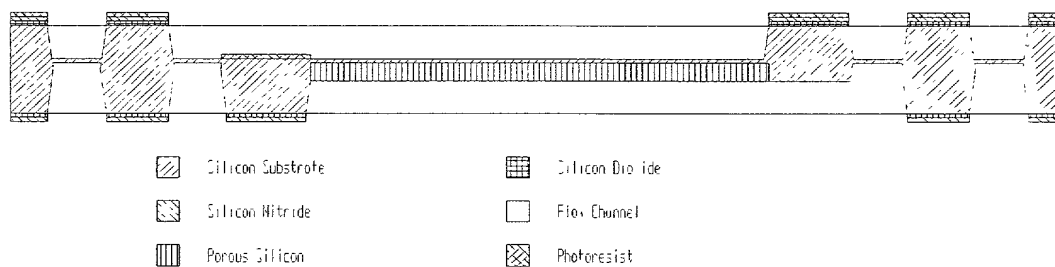


Figure 25B

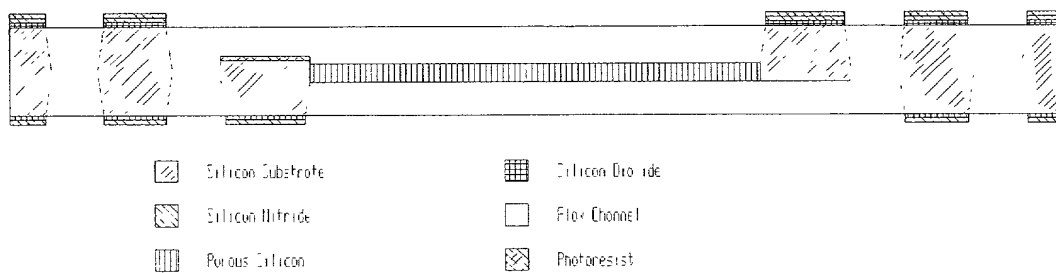


Figure 26

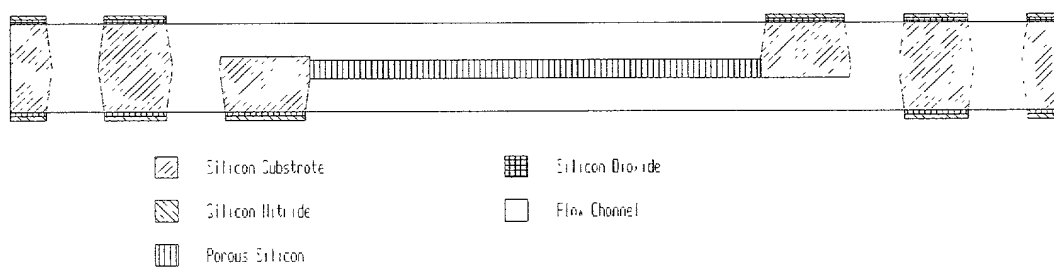


Figure 27

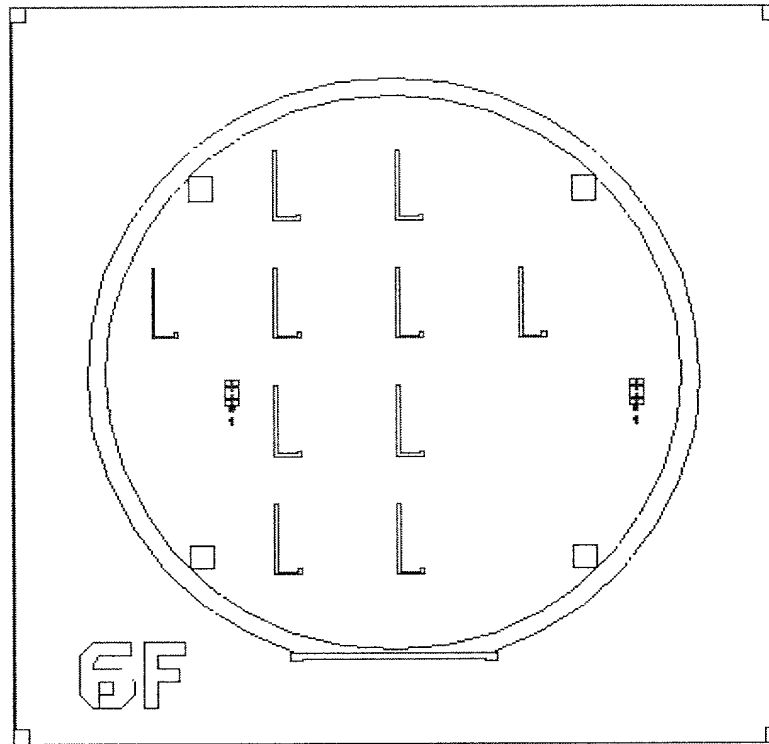


Figure 28A

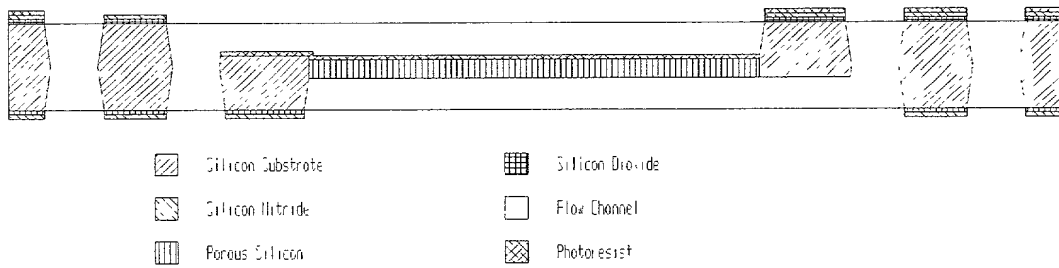


Figure 28B

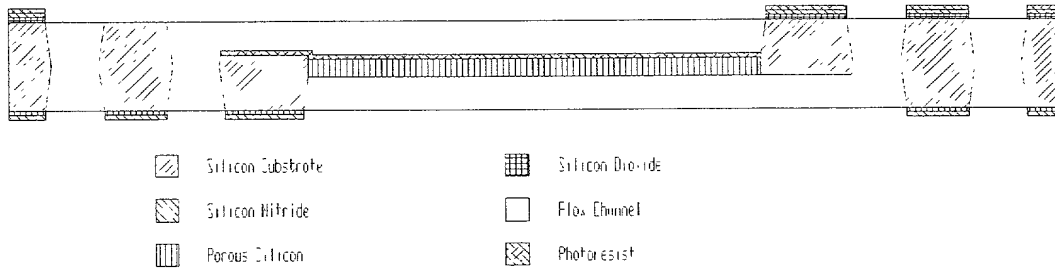


Figure 29

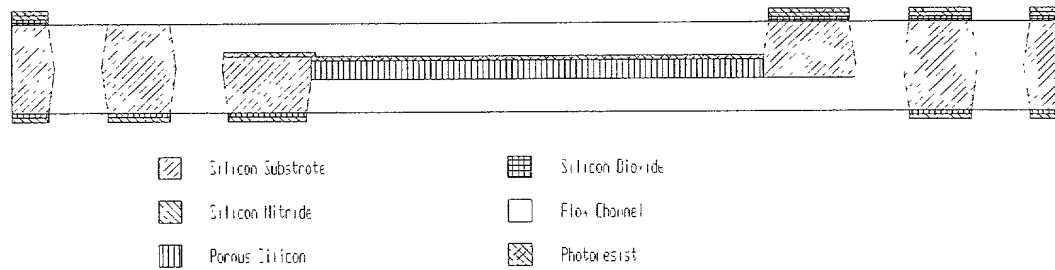


Figure 30

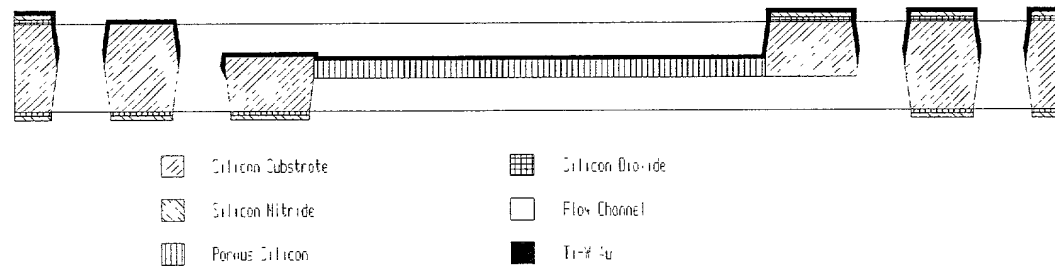


Figure 31

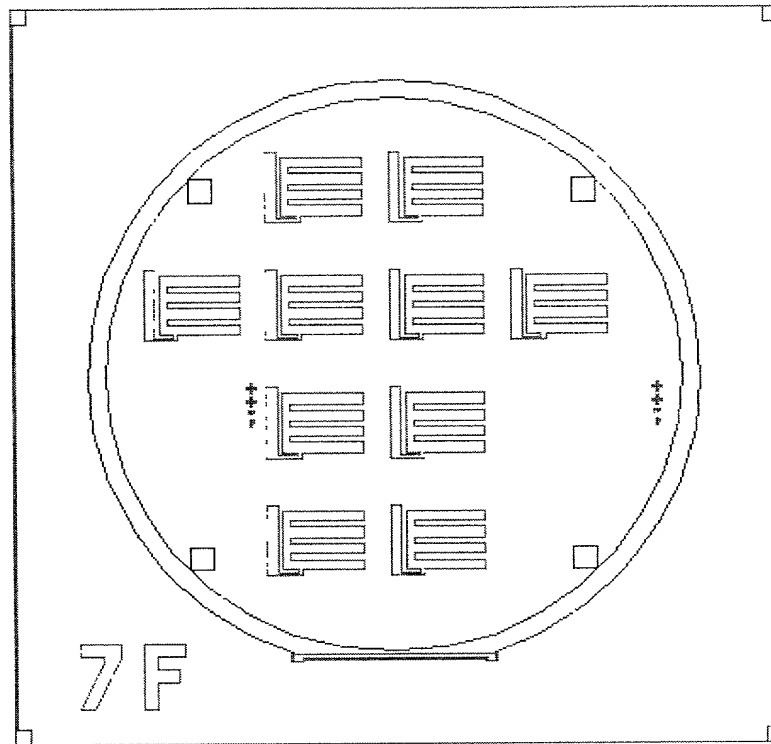


Figure 32A

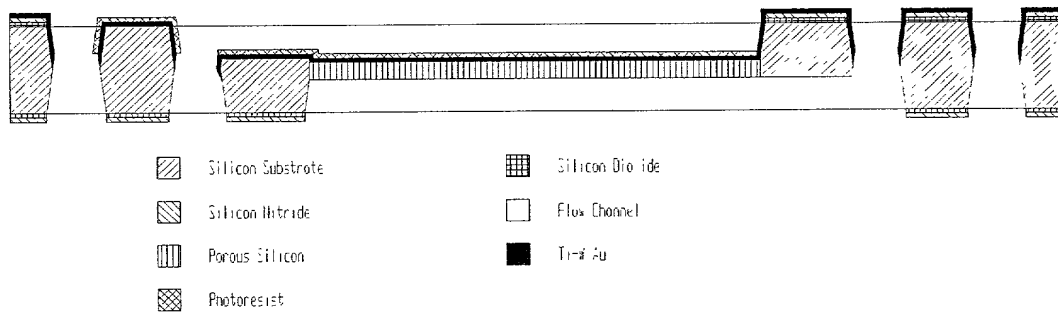


Figure 32B

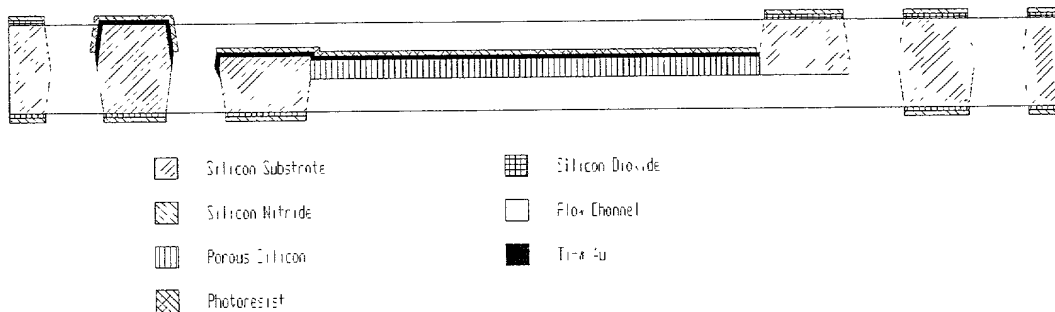


Figure 33

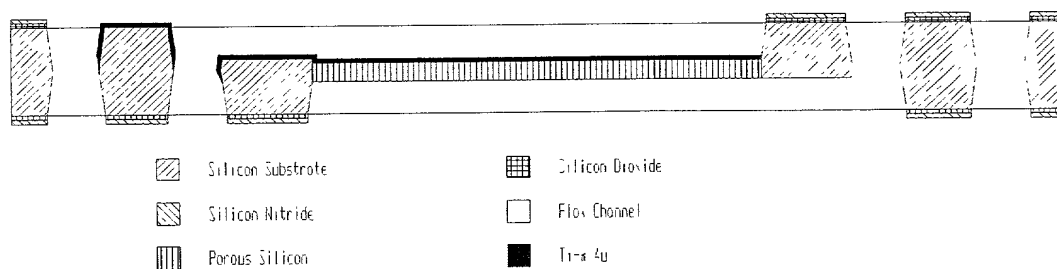


Figure 34

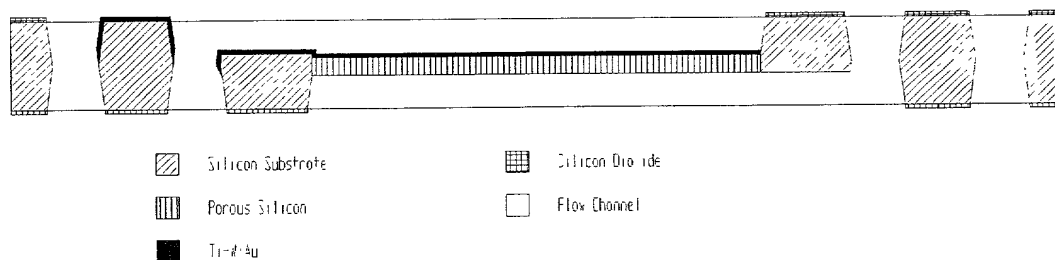


Figure 35

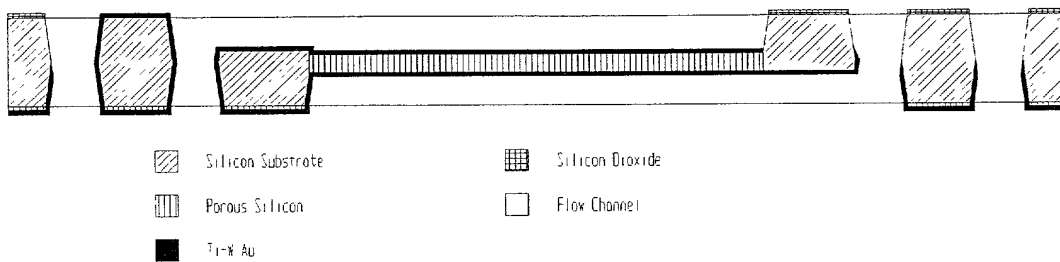


Figure 36

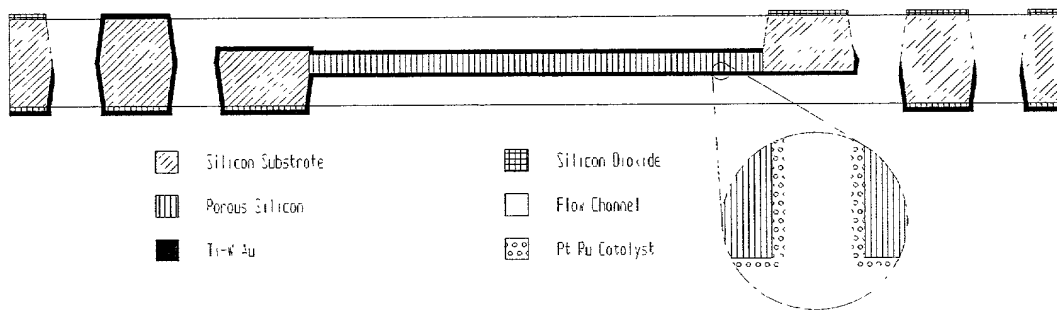


Figure 37

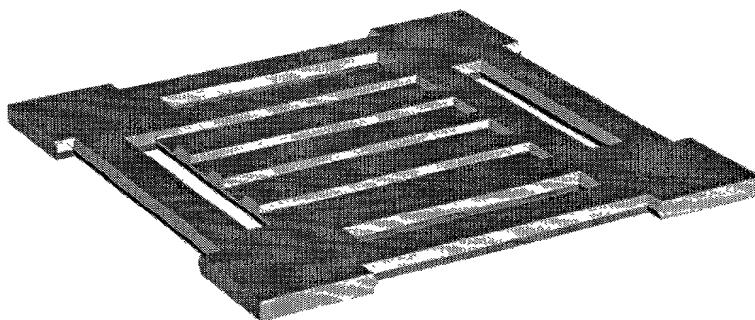


Figure 38A

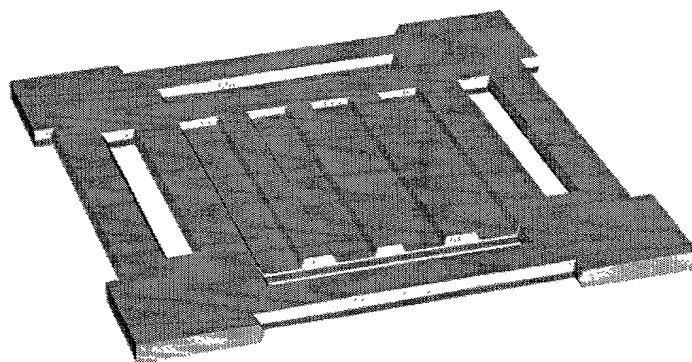
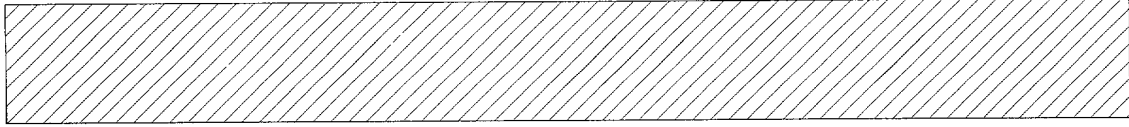


Figure 38B




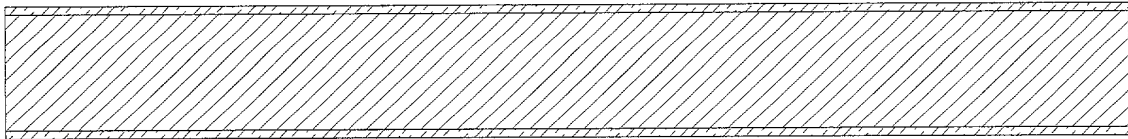

 Silicon Substrate

Figure 39



 Silicon Substrate

 Silicon Nitride

Figure 40

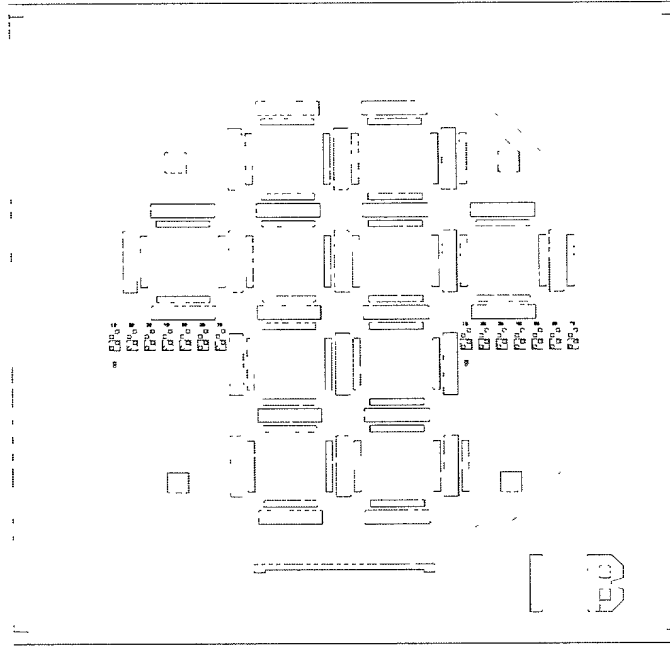
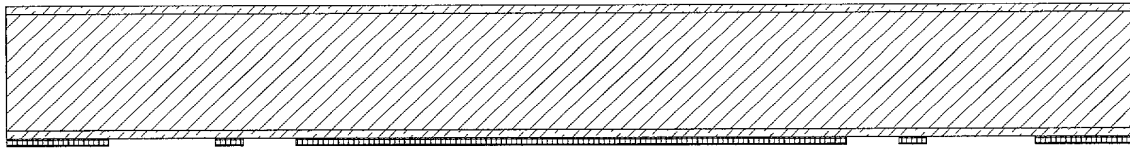


Figure 41A






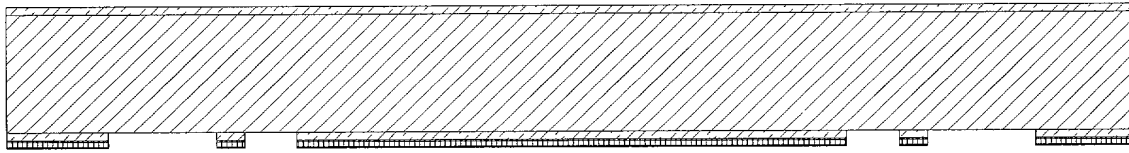
-  Silicon Substrate
-  Silicon Nitride
-  Photo Resists

Figure 41B

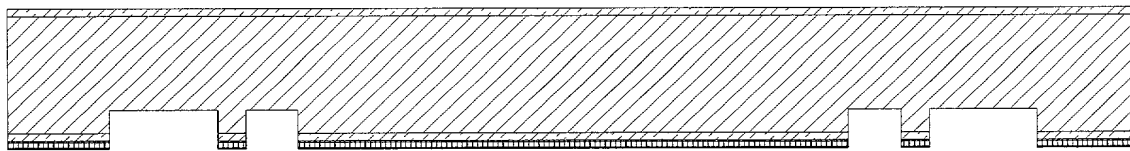


 Silicon Substrate

 Silicon Nitride

 Photo Resists

Figure 42



 Silicon Substrate

 Silicon Nitride


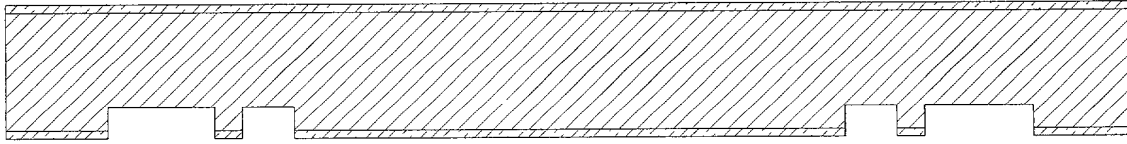
 Photo Resists

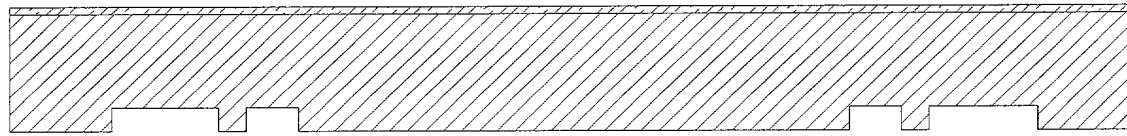
Figure 43



□ Silicon Substrate

▨ Silicon Nitride

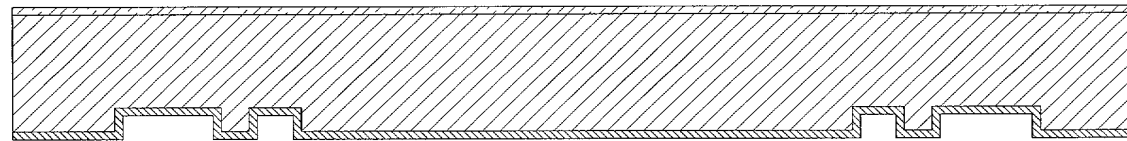
Figure 44



□ Silicon Substrate

▨ Silicon Nitride

Figure 45



□ Silicon Substrate

▨ Silicon Nitride

▩ Aluminum Contact

Figure 46

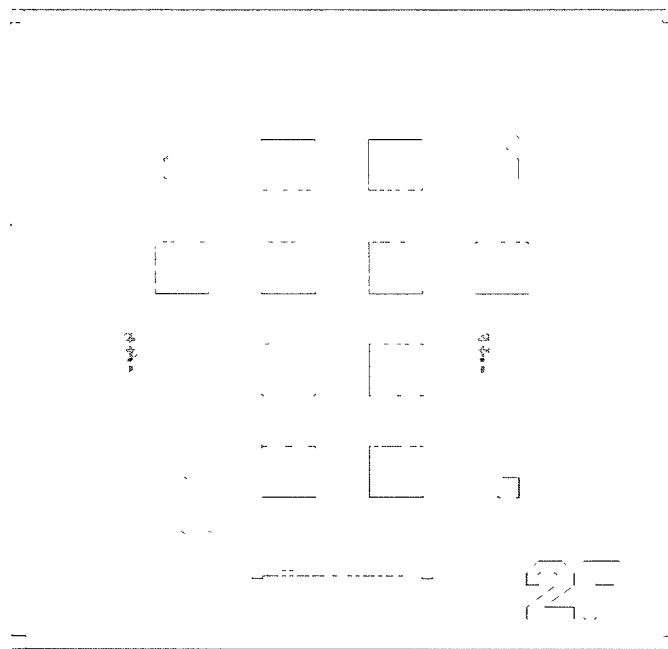
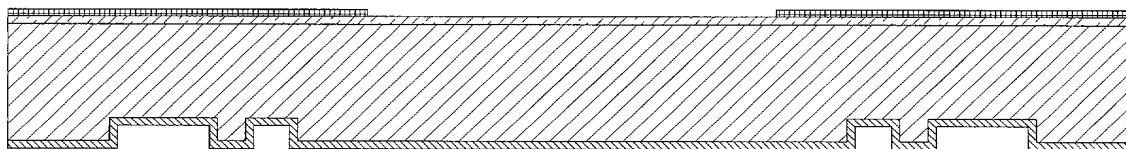


Figure 47A







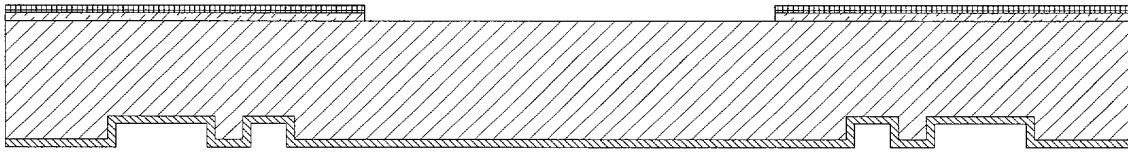
- | | | | |
|---|-------------------|---|---------------|
|  | Silicon Substrate |  | Photo Resists |
|  | Silicon Nitride | | |
|  | Aluminum Contact | | |

Figure 47B







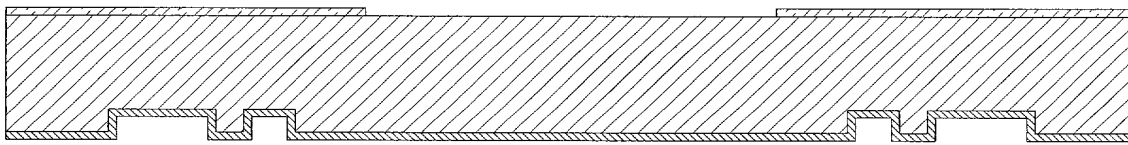
-  Silicon Substrate
-  Photo Resists
-  Silicon Nitride
-  Aluminum Contact

Figure 48






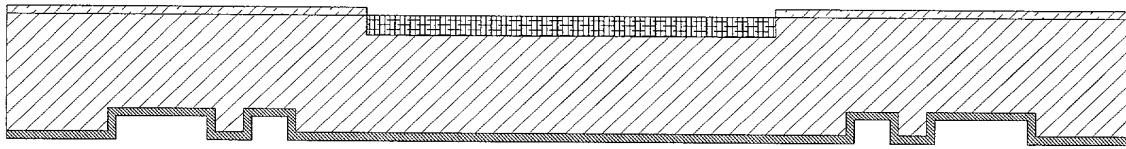
-  Silicon Substrate
-  Silicon Nitride
-  Aluminum Contact

Figure 49







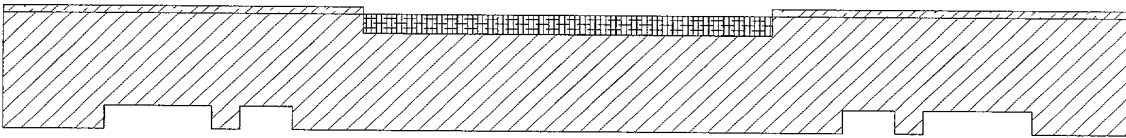
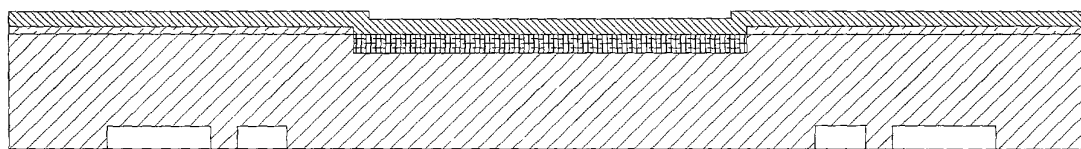
- | | | | |
|---|-------------------|---|----------------|
|  | Silicon Substrate |  | Porous Silicon |
|  | Silicon Nitride | | |
|  | Aluminum Contact | | |

Figure 50



- | | | | |
|---|-------------------|---|----------------|
|  | Silicon Substrate | | |
|  | Silicon Nitride |  | Porous Silicon |

Figure 51







- | | |
|---|--|
|  Silicon Substrate |  Aluminum Contact |
|  Silicon Nitride |  Porous Silicon |

Figure 52






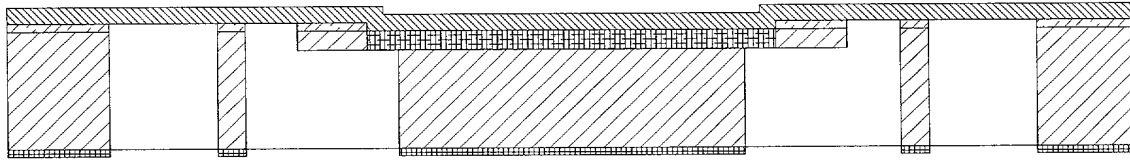
	Silicon Substrate		Aluminum Contact
	Silicon Nitride		Porous Silicon
	Photo Resists		

Figure 53B







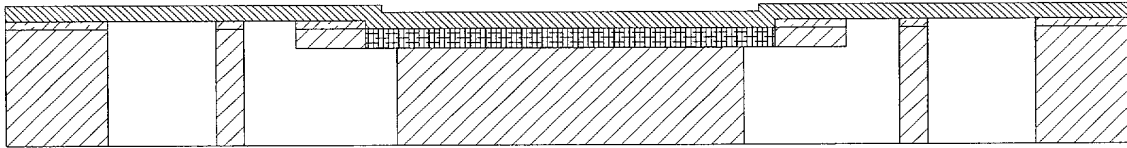
- | | |
|---|--|
|  Silicon Substrate |  Aluminum Contact |
|  Silicon Nitride |  Porous Silicon |
|  Photo Resists | |

Figure 54







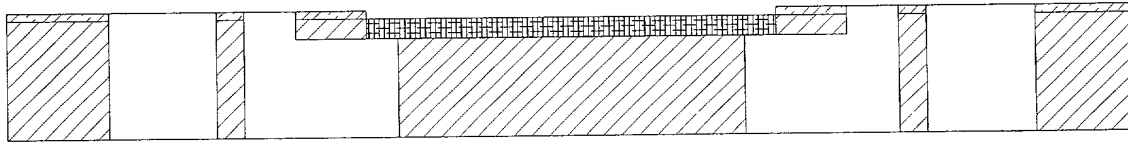
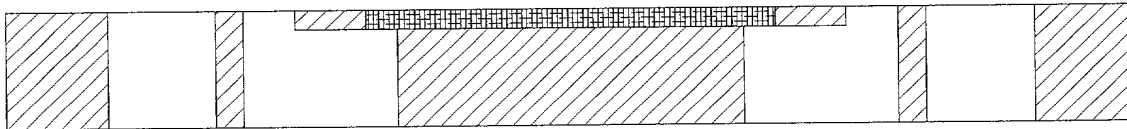
- | | |
|---|--|
|  Silicon Substrate |  Aluminum Contact |
|  Silicon Nitride |  Porous Silicon |

Figure 55



 Silicon Substrate
  Porous Silicon
 Silicon Nitride

Figure 56





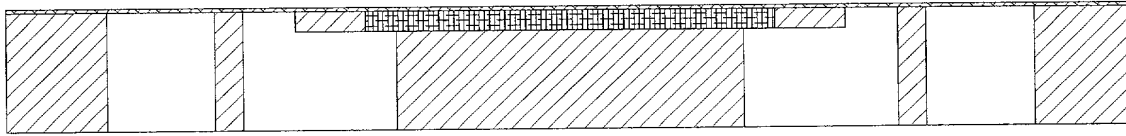
 Silicon Substrate
 Porous Silicon

Figure 57






-  Silicon Substrate
-  Porous Silicon
-  Metal Seed Layer

Figure 58

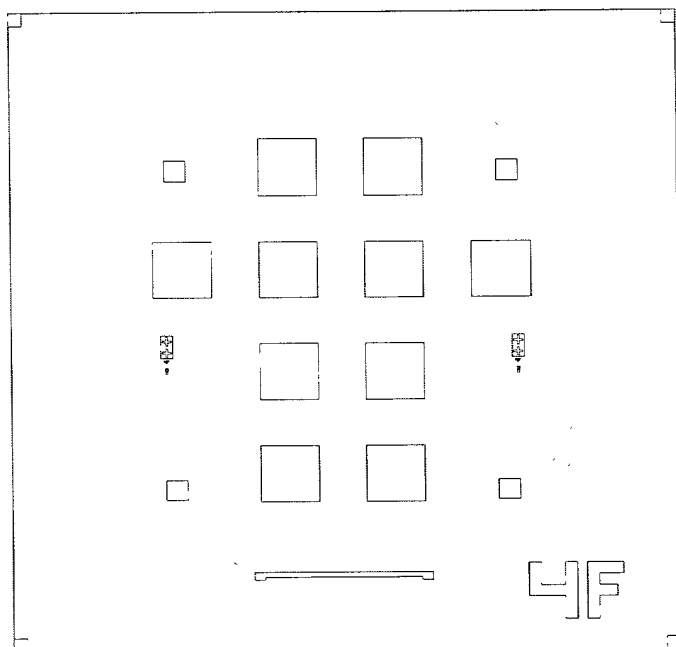
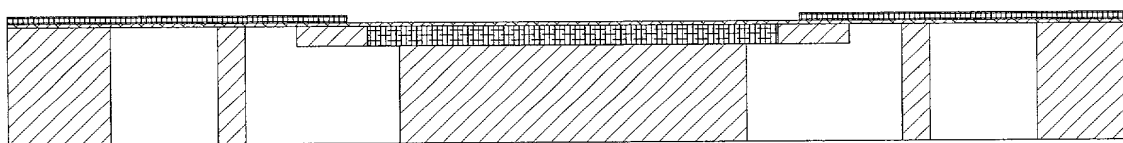


Figure 59A







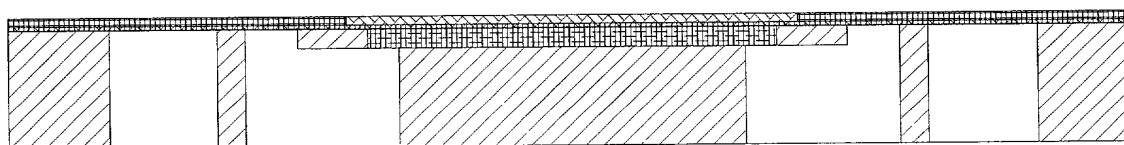
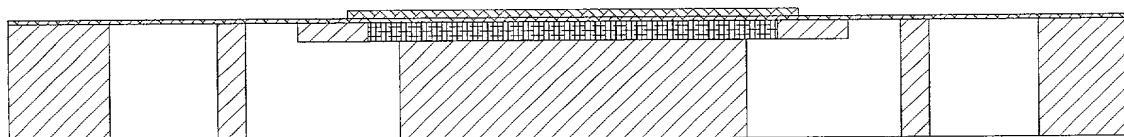
- | | |
|---|--|
|  Silicon Substrate |  Photo Resists |
|  Metal Seed Layer |  Porous Silicon |

Figure 59B



- | | |
|---|--|
|  Silicon Substrate |  Photo Resists |
|  Pd Layer |  Porous Silicon |

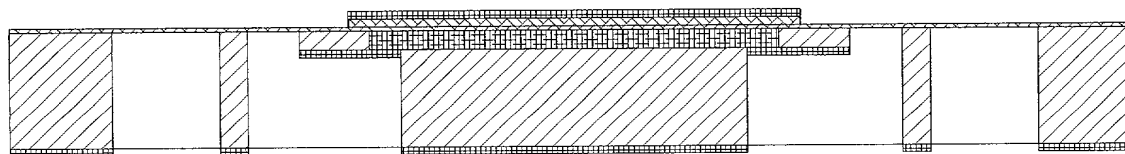
Figure 60



- | | |
|---|--|
|  Silicon Substrate |  Porous Silicon |
|  Pd Layer | |

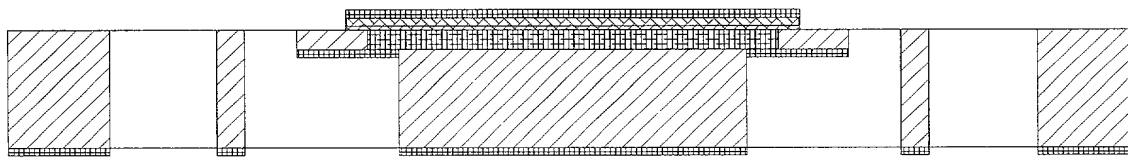
Figure 61

Figure 62A



- | | |
|---|--|
|  Silicon Substrate |  Porous Silicon |
|  Pd Layer |  Photo Resists |

Figure 62B







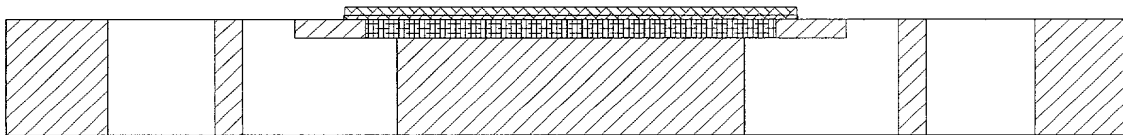
 Silicon Substrate	 Porous Silicon
 Pd Layer	 Photo Resists

Figure 63



 Silicon Substrate	 Porous Silicon
 Pd Layer	

Figure 64

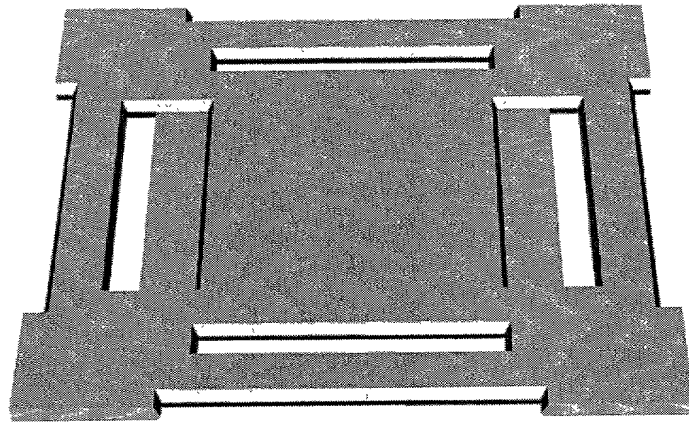


Fig. 6SA

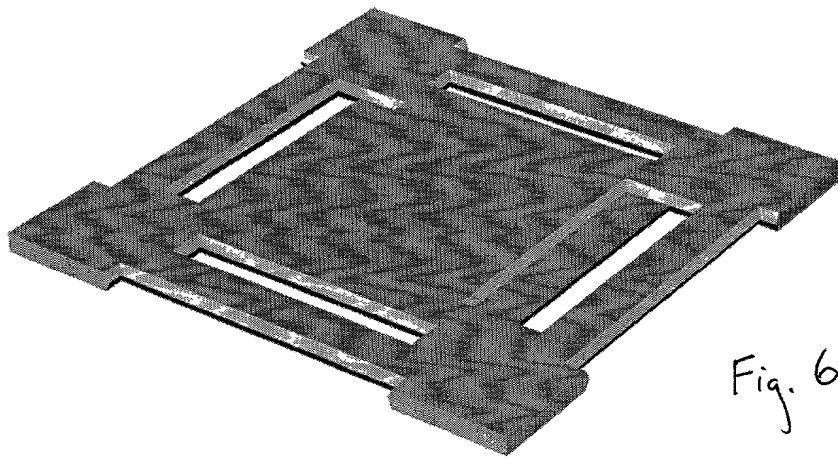


Fig. 6SB

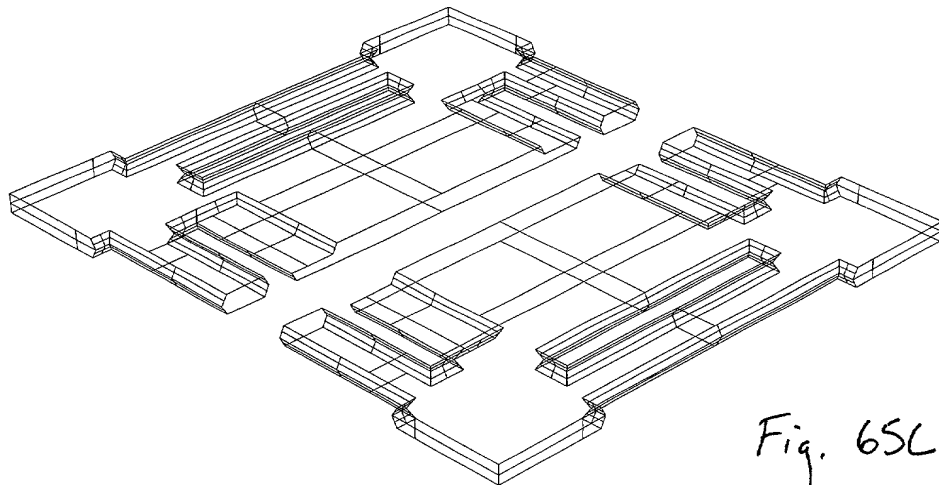


Fig. 6SL